DC/DC Converter
AC/DC Inverters
Delay-Lines
Pulsetransformers
Burst & Surge Filters
Harmonic Filters
Switching Power Supplies

Egart 1
86920 Denklingen/Obb.
Germany

Tel.: 08243-9693-0
Fax: 08243-9693-33
www.floeth-electronic.com

FLOETH ELECTRONIC

Stand: 21/17

COMMERCIAL-INDUSTRIAL DC/DC Converters

0,25 - 1,25 Watt
Series: MD8

Unregulated
Case style: DIP 8

Electrical specifications:

Input voltage range:	+/- 10%
	optional: +/- 20% (Part-No. ../W)
Output voltage accuracy:	+/- 5% **
Line Voltage regulation:	+/- 1,2% / 1% of Vin typ.
Load Voltage regulation:	3,3V output type 20% max.
(10% to 100% full load)	5V output type 15% max.
	9V ~ 24V output types 10% max.
Efficiency:	up to 85%

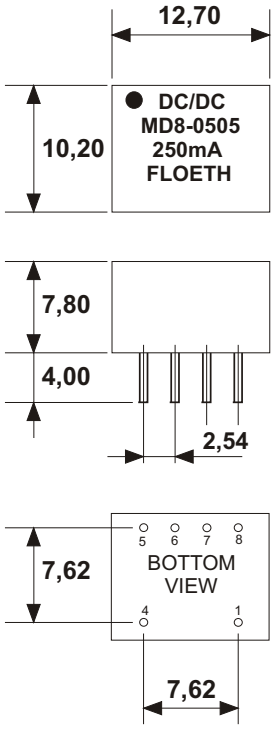
** Note: Measured @25°C with the condition of Vin = nominal and full load

Output Ripple & Noise:	75mVp-p max.
Short circuit protection:	1.0 second
optional:	/S = continuous
Operating temperature:	-40°C to +85°C
Isolation voltage:	min. 1000V DC
Optional Part-No.: /H	min. 2000V DC
Part-No.: /2	0,25W output power
Part-No.: /5	0,5W output power
Part-No.: /7	0,75W output power

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Single Output				Dual Output			
Part-No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Part-No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
MD8-xx03.3	3.3, 5, 9, 12, 15, 24	3,3	378	MD8-xx03.3D	3.3, 5, 9, 12, 15, 24	+/- 3,3	+/-189
MD8-xx05	3.3, 5, 9, 12, 15, 24	5	250	MD8-xx05D	3.3, 5, 9, 12, 15, 24	+/- 5	+/-125
MD8-xx07	3.3, 5, 9, 12, 15, 24	7	180	MD8-xx07D	3.3, 5, 9, 12, 15, 24	+/- 7	+/- 90
MD8-xx09	3.3, 5, 9, 12, 15, 24	9	140	MD8-xx09D	3.3, 5, 9, 12, 15, 24	+/- 9	+/- 70
MD8-xx12	3.3, 5, 9, 12, 15, 24	12	104	MD8-xx12D	3.3, 5, 9, 12, 15, 24	+/- 12	+/- 52
MD8-xx15	3.3, 5, 9, 12, 15, 24	15	84	MD8-xx15D	3.3, 5, 9, 12, 15, 24	+/- 15	+/- 42
MD8-xx24	3.3, 5, 9, 12, 15, 24	24	52				

Any other input or output voltages available



PIN CONNECTION:				
PIN	SINGLE	SINGLE A	DUAL	DUAL /X
1	- IN	- IN	- IN	- IN
4	+ IN	+ IN	+ IN	+ IN
5	+ Vout	+ Vout	+ Vout	+ Vout
6	NC	NP	COM	NP
7	NP	- Vout	NP	COM
8	- Vout	NP	- Vout	- Vout

Add "A" or "/X" to the end of partnumber.
For example MD8-0505A; MD8-1212D/X

ALL DIMENSIONS IN MM
Tolerance +/- 0.25mm
All pins on a 2,54mm pitch.
Pin size is 0,5mm (0,020 inch) DIA
NC = No connection; NP = No pin
Dot denotes +IN (pin 4)

Note: Input and output capacitor 4,7µF - 10µF recommended.

Specification may be changed without notice
please contact office for verification

We can offer EMC - Filter
according to EN55011/22 Class B.

DC/DC Converter
AC/DC Inverters
Delay-Lines
Pulsetransformers
Burst & Surge Filters
Harmonic Filters
Switching Power Supplies

Egart 1
86920 Denklingen/Obb.
Germany

Tel.: 08243-9693-0
Fax: 08243-9693-33
www.floeth-electronic.com

FLOETH ELECTRONIC

Stand: 22/17

COMMERCIAL-INDUSTRIAL DC/DC Converters

ISOLATED OUTPUTS

Unregulated
Case style: DIP 8

0,5 - 1 Watt
Series: MD8

Electrical specifications:

Input voltage range:	+/- 10%
Output voltage accuracy:	+/- 5% **
Line Voltage regulation:	+/- 1,2% / 1% of Vin max.
Load Voltage regulation: (10% to 100% full load)	3,3V output type 20% max. 5V output type 15% max. 9V ~ 24V output types 10% max.

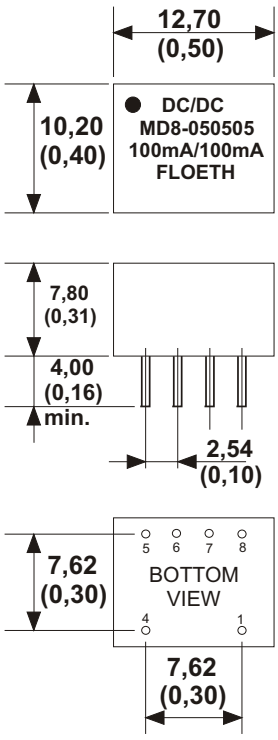
** Note: Measured @25°C with the condition of Vin = nominal and full load

Efficiency:	up to 80%
Output Ripple & Noise:	75mVp-p max.
Short circuit protection:	1.0 second
Operating temperature:	-40°C to +85°C
Isolation voltage I/O:	min. 1000V DC
Isolation voltage O/O:	min. 1000V DC
Part-No.: /H	min. 2000V DC (I/O)
Part-No.: /5	0,5W output power

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

		Output 1		Output 2	
Part - No. Dual Output	Input Voltage DC	Output Voltage DC	Output Current	Output Voltage DC	Output Current
MD8-xx03,303,3	3,3V	3,3V	152mA	3,3V	152mA
MD8-xx053,3	5V	5V	100mA	3,3V	152mA
MD8-xx0505				5V	100mA
MD8-xx0509	12V			9V	56mA
MD8-xx0512				12V	41mA
MD8-xx0515	15V			15V	33mA
MD8-xx0909	18V	9V	56mA	9V	56mA
MD8-xx1212	24V	12V	41mA	12V	41mA
MD8-xx1515	For example: MD8-03,303,303,3 1W	15V	33mA	15V	33mA

Any other input & output voltages available



PIN CONNECTION:	
PIN	DUAL
1	GND
4	VCC
5	+ Vout 1
6	- Vout 1
7	+ Vout 2
8	- Vout 2

ALL DIMENSIONS IN MM (INCHES)
Tolerance +/- 0.25mm
All pins on a 2,54mm pitch.
NC = No connection; NP = No pin

Note: Input and output capacitor 4,7µF - 10µF recommended.
Dot denotes +IN (pin 4)

Specification may be changed without notice
please contact office for verification

We can offer EMC - Filter
according to EN55011/22 Class B.